UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

OCTOBER 1969

PART II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

CONTENTS

Page

Sea Surface Temperature Charts, Eastern Pacific Ocean, October 1969 1

U. S. Department of the Interior
Bureau of Commercial Fisheries
Fishery-Oceanography Center
P. O. Box 271
La Jolla, California 92037

*Part 1 - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, U.S. Custom House, Terminal Island, California

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
OCTOBER 1969

Acknowledgements

The following organizations and stations contributed data for the October 1969 charts:

U.S. Bureau of Commercial Fisheries Biological Laboratories La Jolla, California, Honolulu, Hawaii and Seattle, Washington
U.S. Coast Guard Cutter ACUSHNET, COMANCHE, RELIANCE, SPENCER
U.S. Naval Weather Service, Fleet Numerical Weather Central, Monterey, California
Environmental Science Services Administration
U.S. Weather Bureau, San Diego, California
U.S. Coast and Geodetic Survey, Pacific Marine Center, Seattle, Washington
Hopkins Marine Station, Pacific Grove, California, J. P. Balesteri
Inter-American Tropical Tuna Commission, La Jolla, California
Inter-American Geodetic Survey by L. Peren at Puerto Armuelles, Panama; D. Chaves at Talara, Peru; E. Portocarrero at San Juan, Peru
Kelco Company, San Diego, California
LMR Inc., San Diego, California
Pacific Missile Range, Range Operations Department, Geophysics Division Point Mugu, California
Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by G. C. Wilks at Langara Island Light; P. H. Wipperman at Cape St. James Light; Lily Collins at Kains Island Lightstation; O. A. Edwards at Amphitrite Point Light
Scripps Institution of Oceanography, La Jolla, California, by Margaret Robinson
Scripps Institution of Oceanography Research Vessels ALEXANDER AGASSIZ, THOMAS WASHINGTON, ARGO, ELLEN B. SCRIPPS, FLIP
Fishing Vessels MARTINAC, TYPHOON, GINA KAREN

Charts

Figure 1. --Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather ship stations. Numerals on shore are temperatures at coastal and lightship stations.

Figure 2. --Deviation of sea surface temperatures (°F) from long term charts of H. O. 225. Hatched areas are colder in 1969.

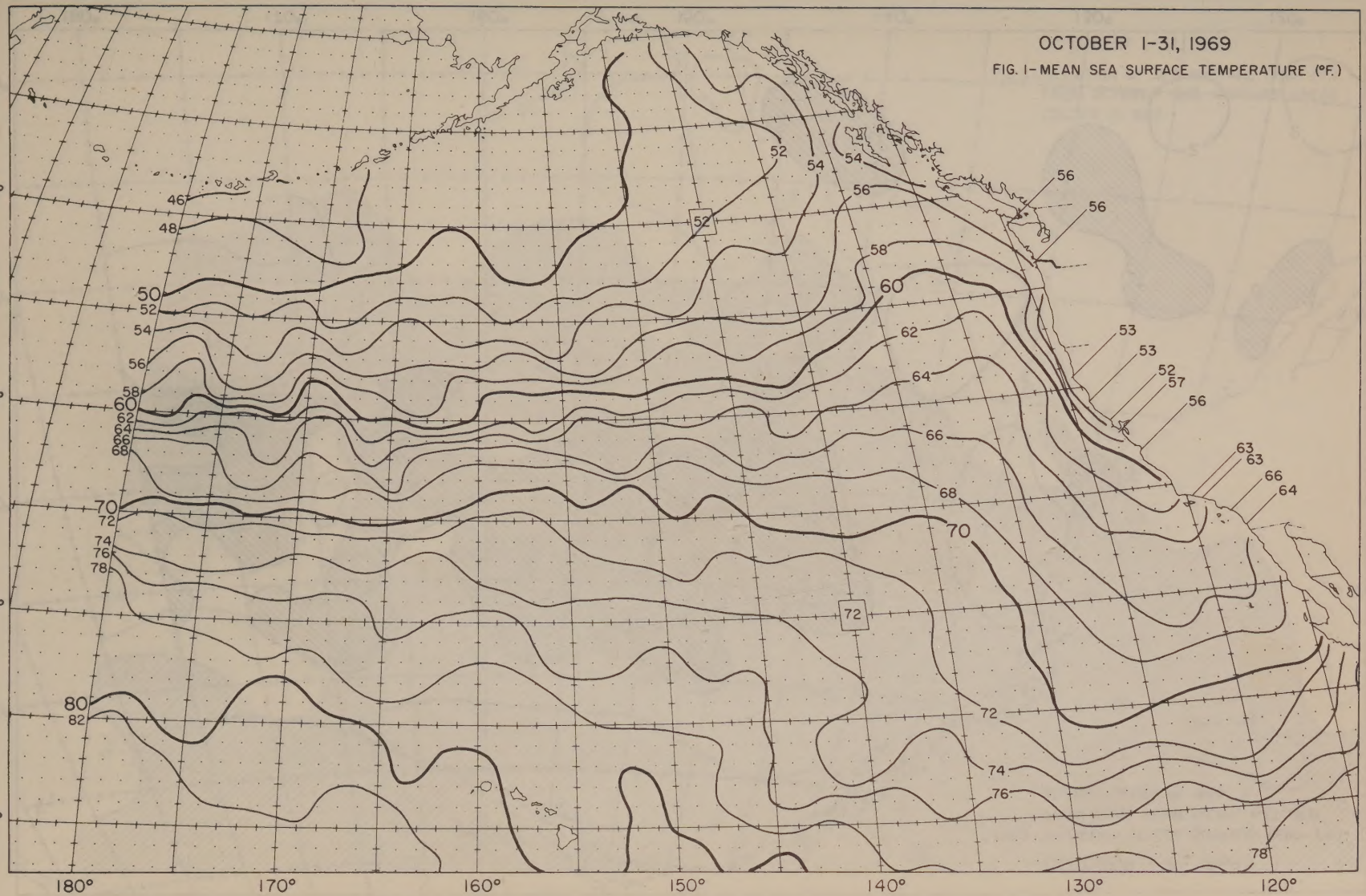
Figure 3. --Deviation of sea surface temperatures (°F) from those of October 1968. Hatched areas are colder in 1969.

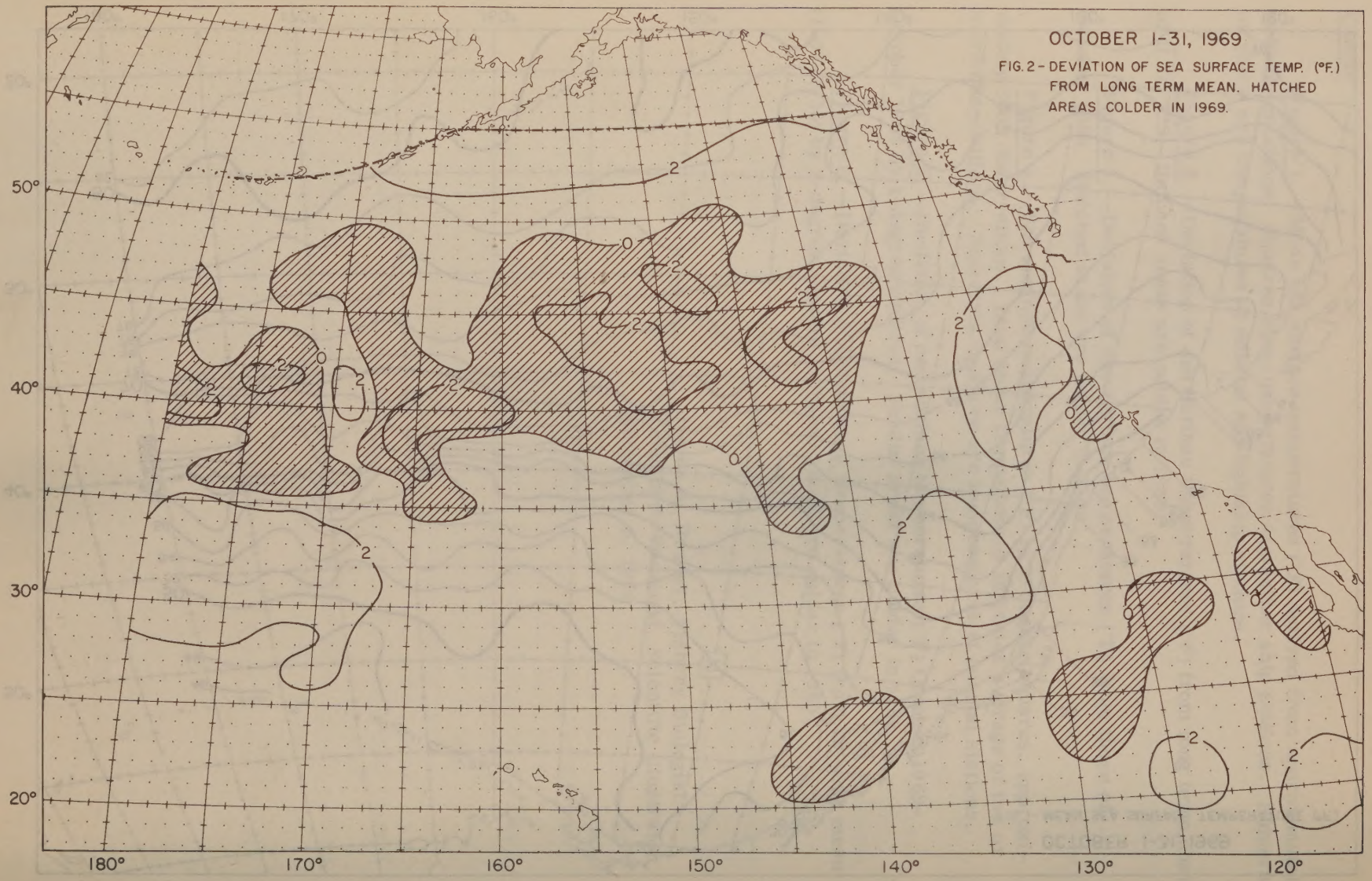
Figure 4. --Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

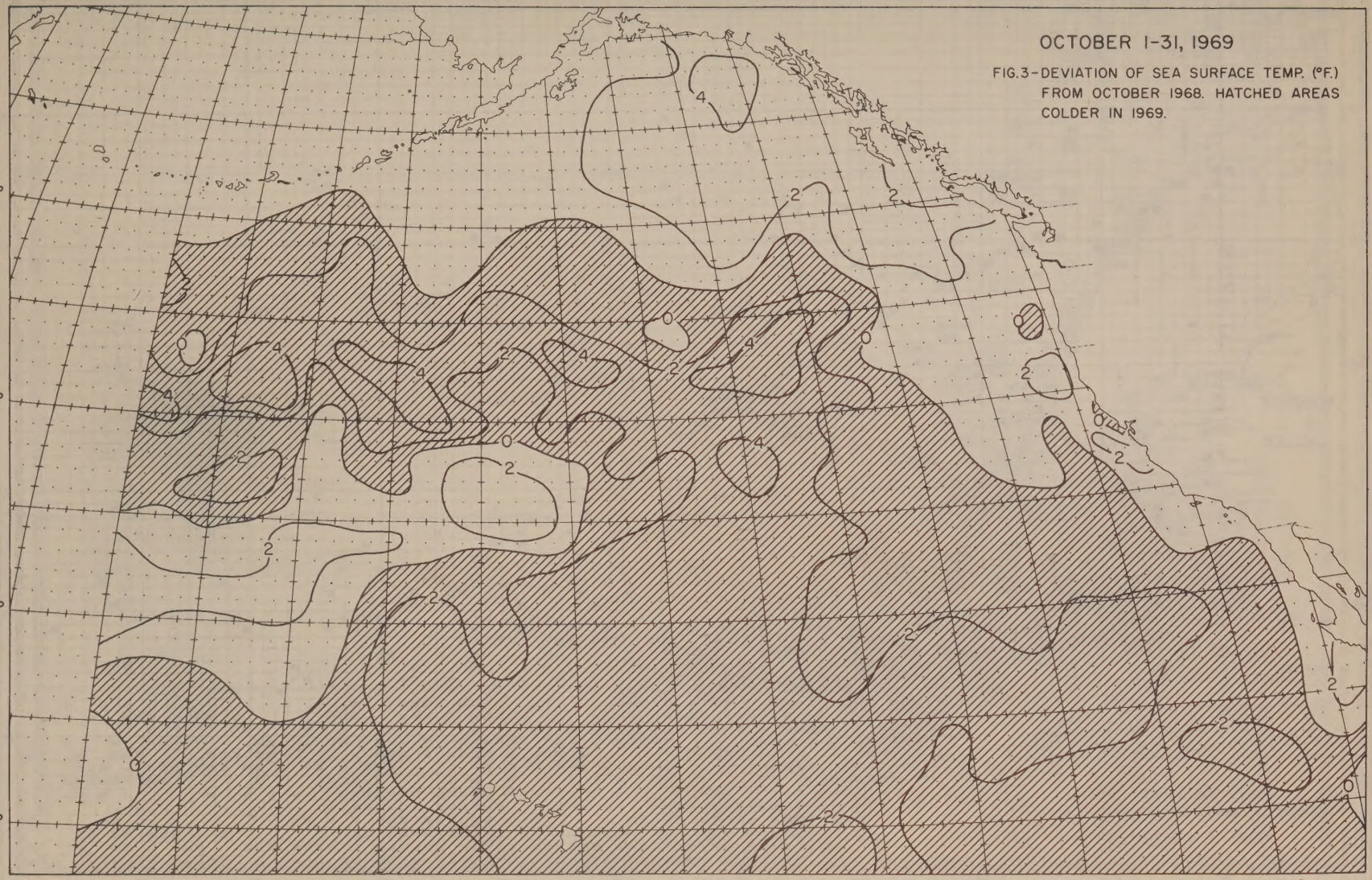
Figure 5. --Deviation of sea surface temperatures (°F) October 1969-October 1968 by 1-degree squares. Shaded areas are colder in 1969.

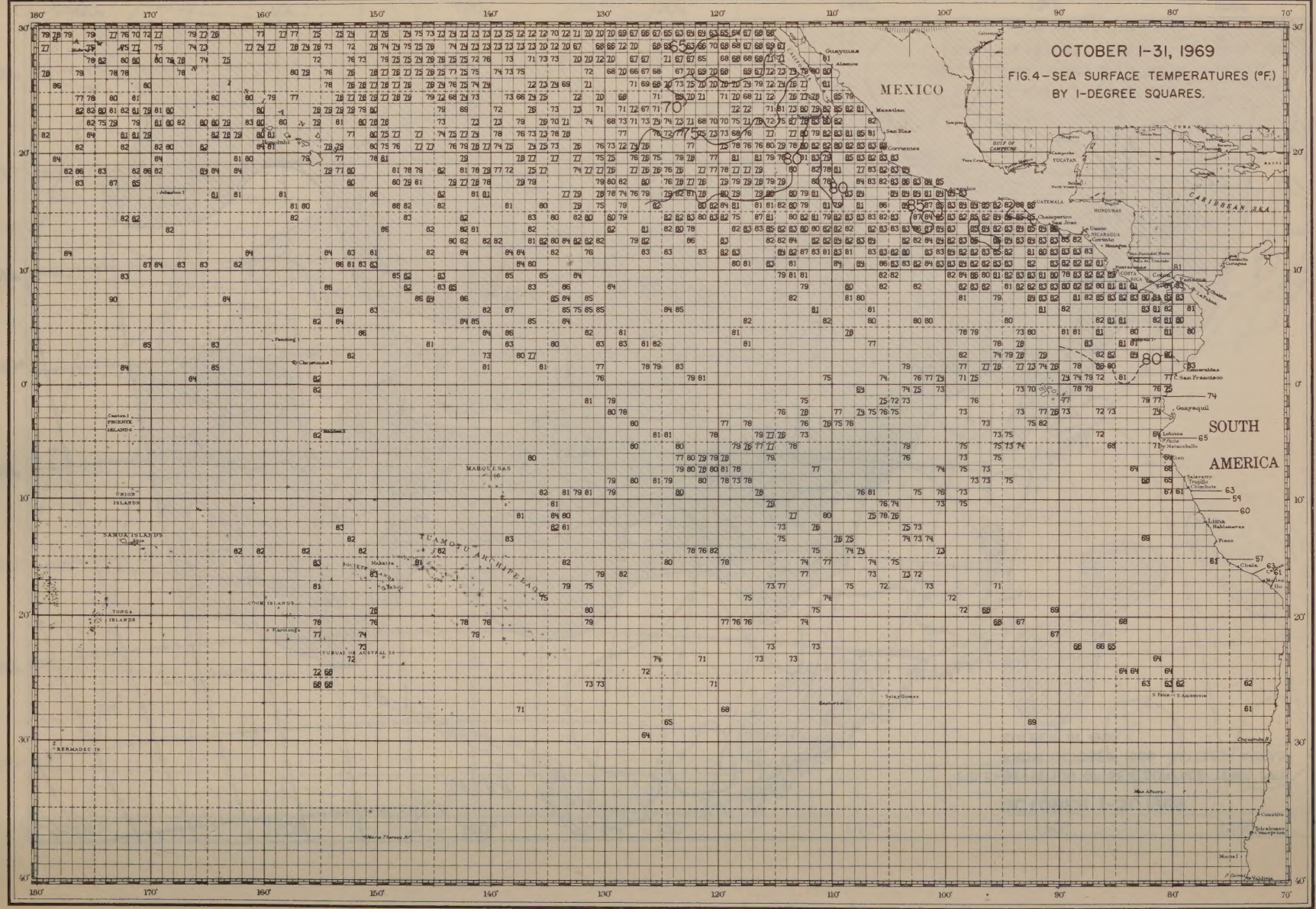
Figure 6. --Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder in 1969.

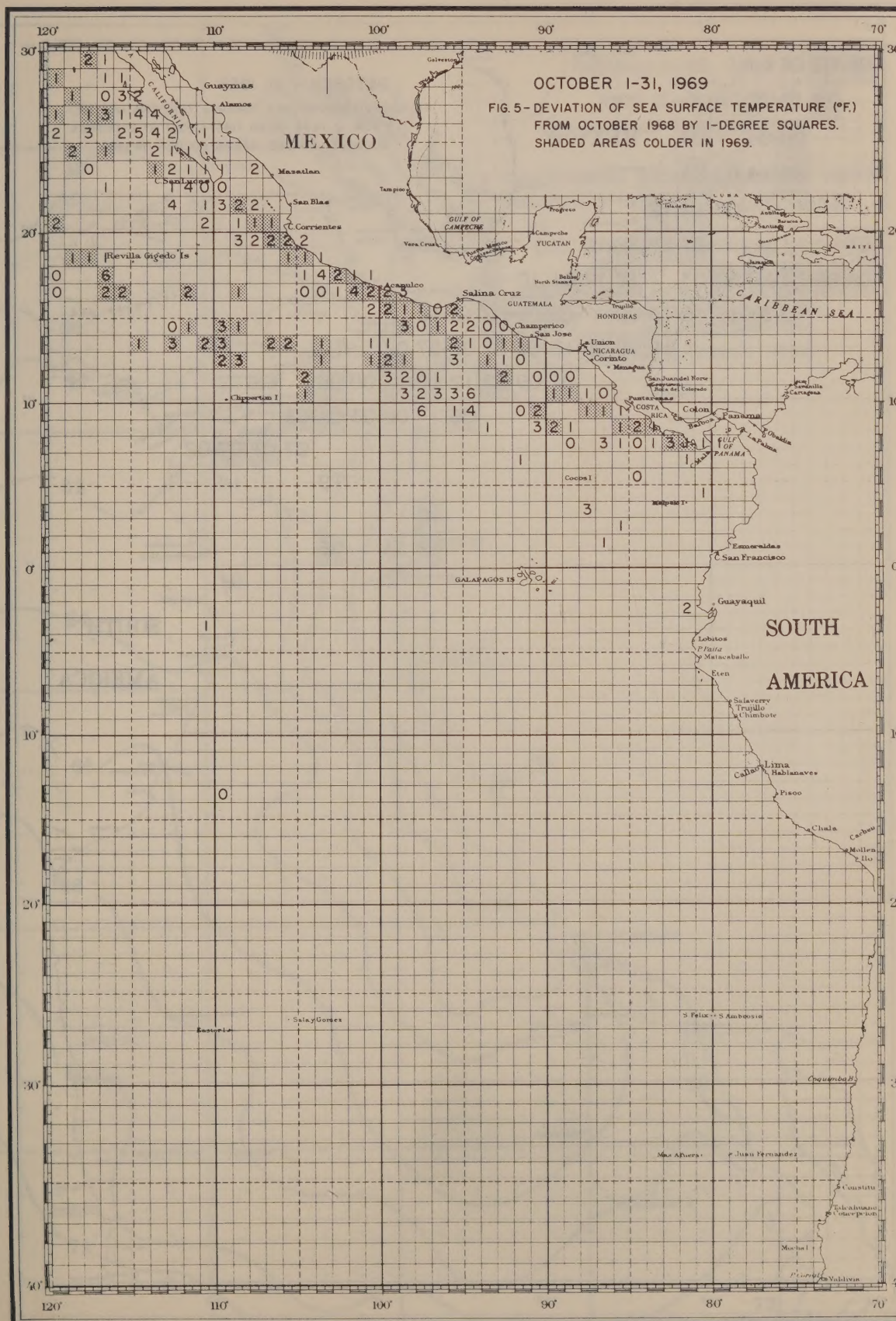
James A. Renner, Fishery Biologist
Kenneth S. Raymond, Scientific Illustrator
November 6, 1969

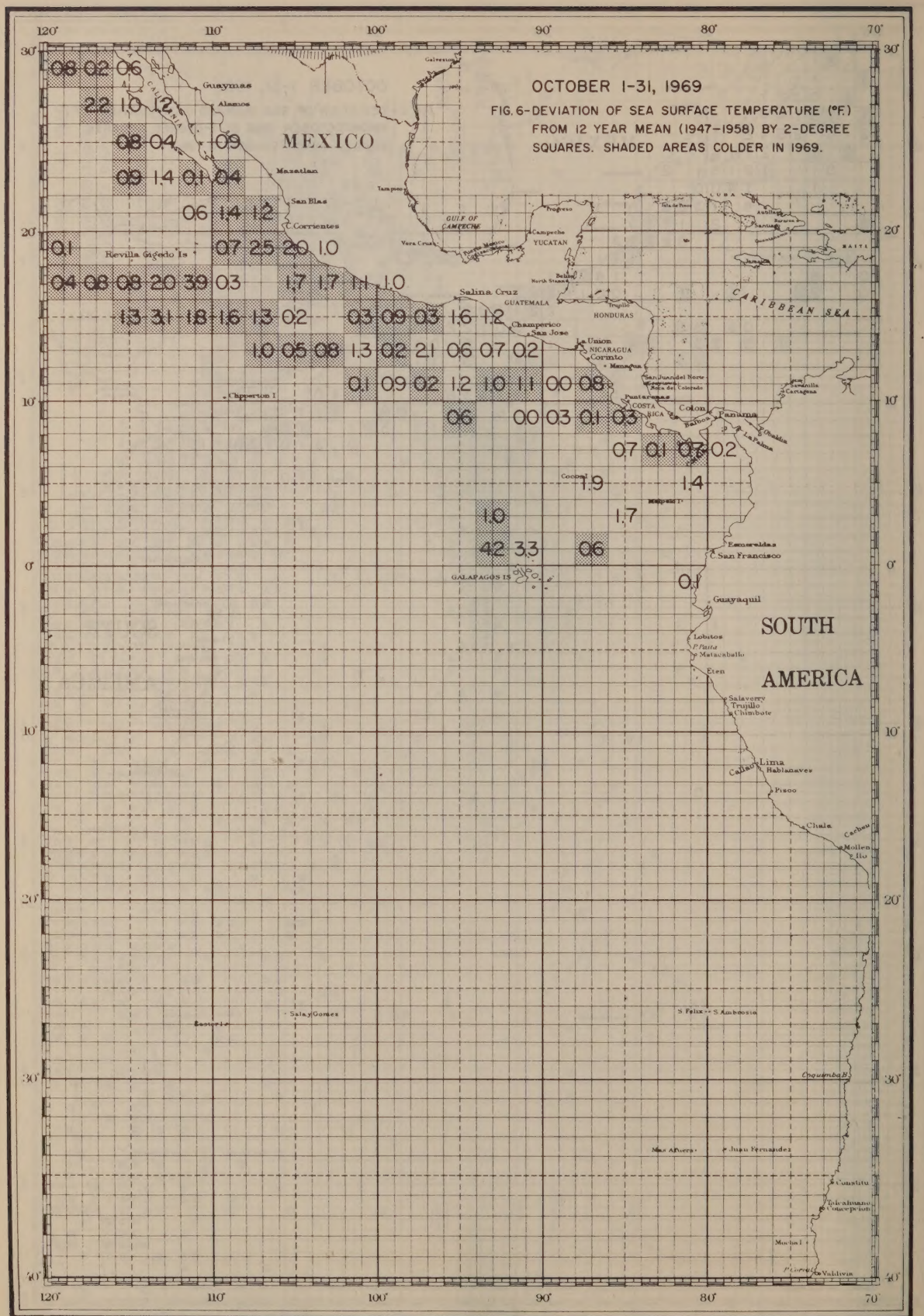

OCTOBER 1-31, 1969
FIG. 1- MEAN SEA SURFACE TEMPERATURE (°F.)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
52
54
54
56
56
58
60
62
64
66
68
70
72
72
74
76
78
53
53
52
57
56
63
63
66
64

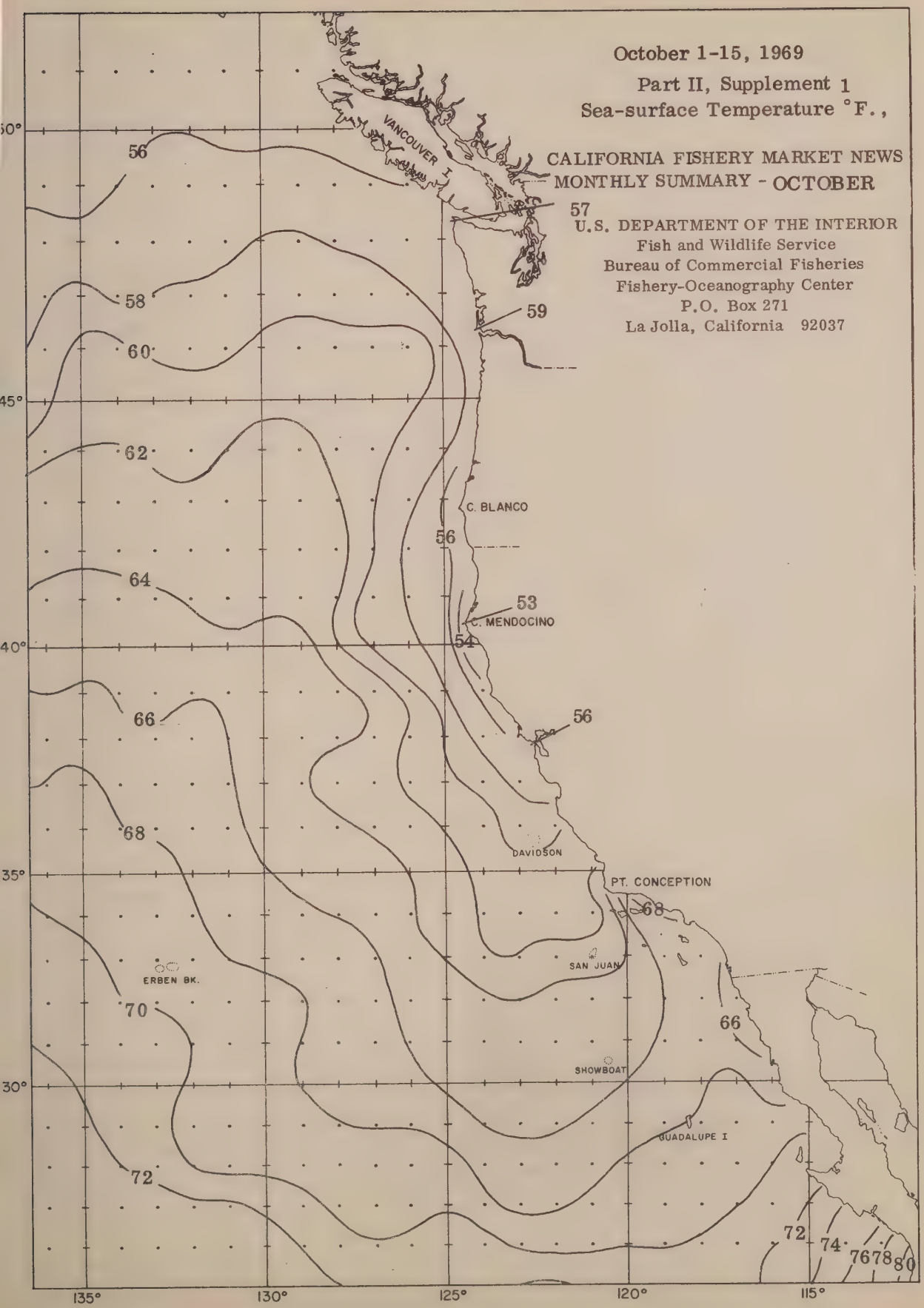

OCTOBER 1-31, 1969
FIG. 2 - DEVIATION OF SEA SURFACE TEMP. (°F.) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1969.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
2
0
-2

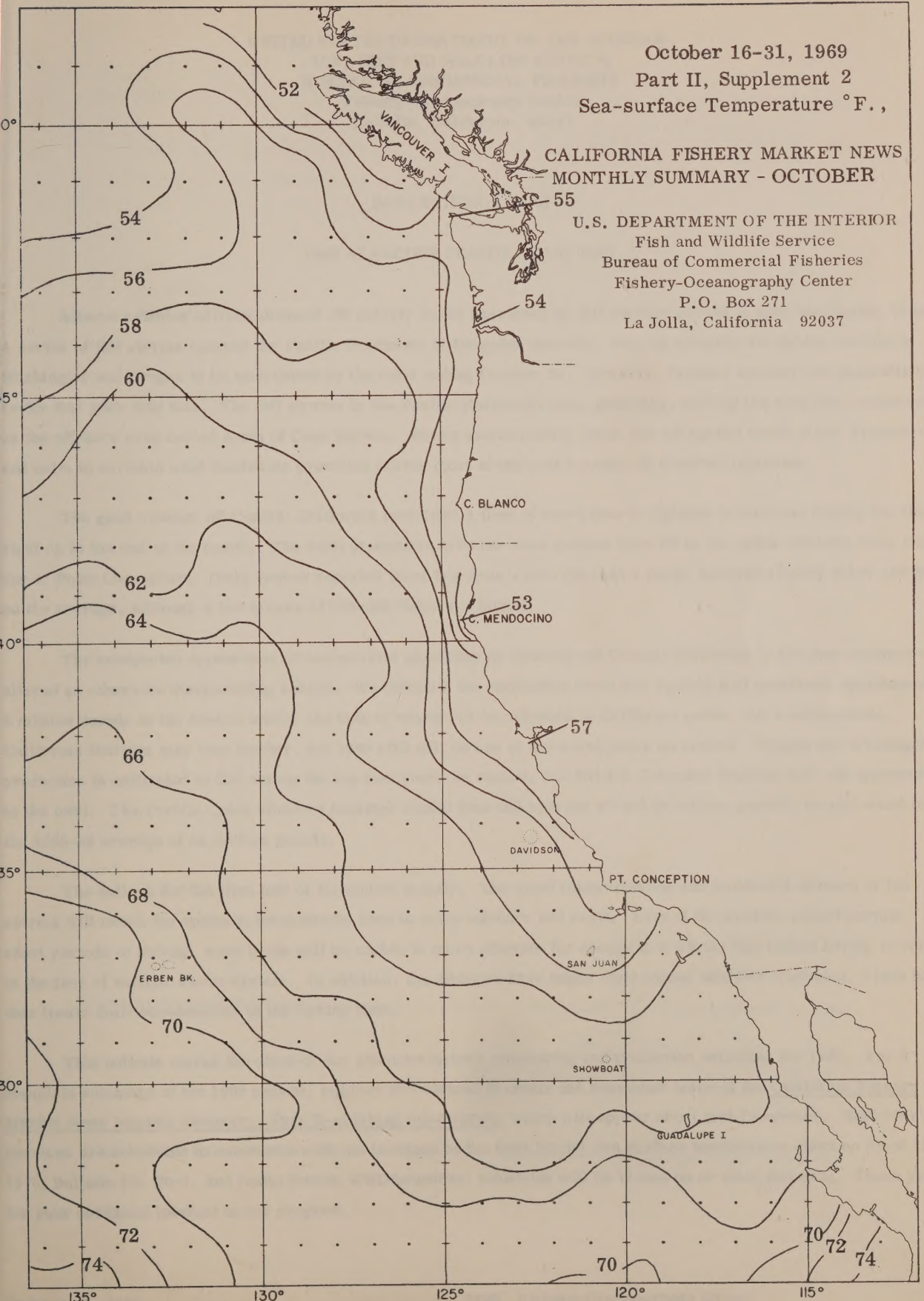

OCTOBER 1-31, 1969
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F.) FROM OCTOBER 1968. HATCHED AREAS COLDER IN 1969.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

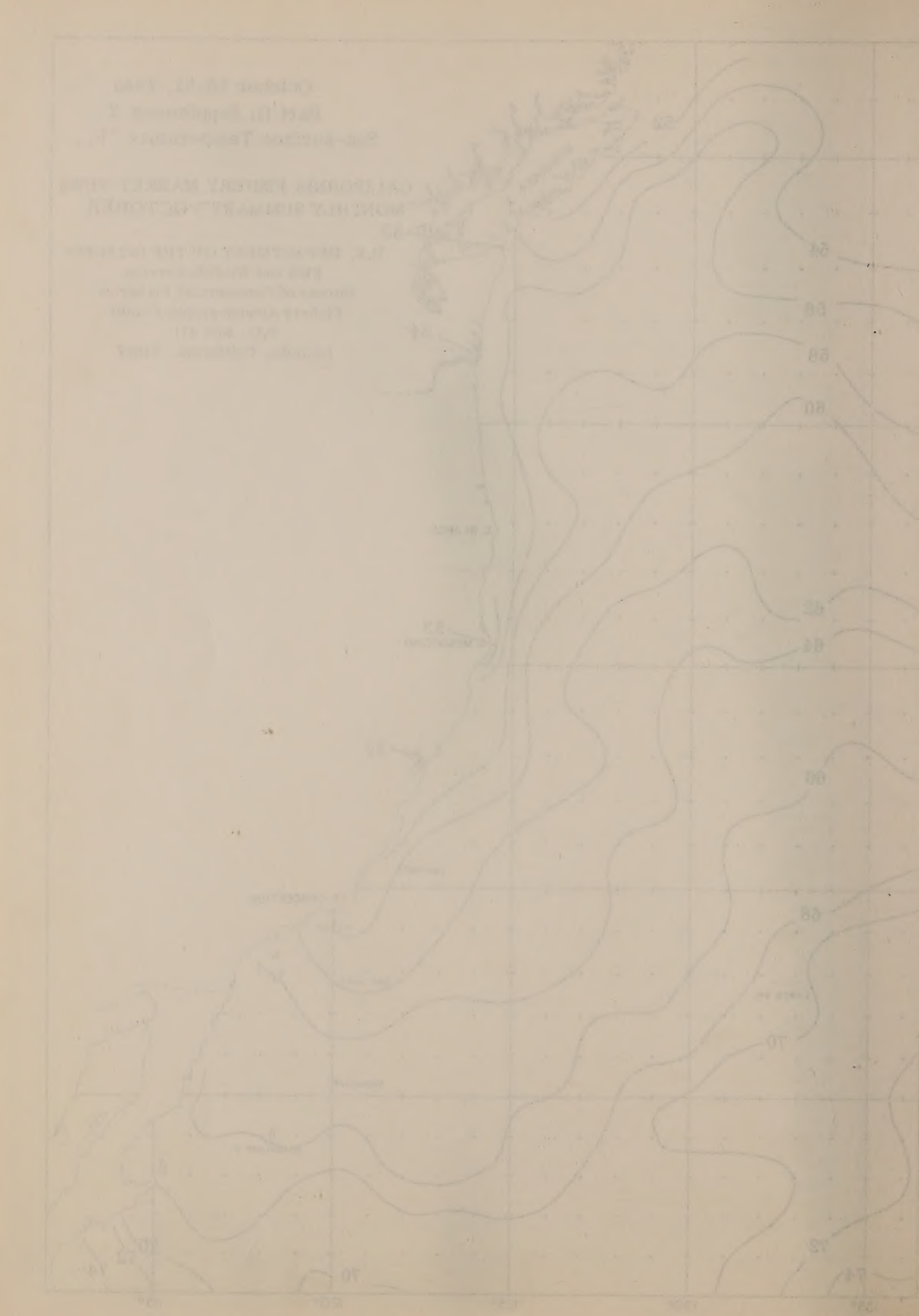

OCTOBER 1-31, 1969
FIG. 4 - SEA SURFACE TEMPERATURES (°F.)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
YUCATAN
GUATEMALA
HONDURAS
COSTA RICA
PANAMA
CUBA
Guaymas
Mazatlan
San Blas
Corrientes
Acapulco
Champerico
San Jose
Corinto
Managua
Puntarenas
Colon
Panama
Galapagos Is.
Guayaquil
San Francisco
Salaverry
Trujillo
Chimbote
Lobitos
Talara
Mancora
Callao
Lima
Huacho
Pisco
Chala
Matarani
Iquique
Antofagasta
Coquimbo
Valparaiso
Talcahuano
Concepcion
Corral
Mocha I.
Juan Fernandez Is.
Easter I.
Sala y Gomez
Marquesas Is.
Society Is.
Tuamotu Archipelago
Cook Islands
Samoa Islands
Tonga Islands
Union Islands
Phoenix Islands
Kermadec Is.
Tubuai Is. of Australs
Mururoa
Hao Atoll
Tahiti
Raiatea
Bora Bora
Huahine
Rarotonga
Pago Pago
Nukuhiva
Penrhyn I.
Christmas I.
Malden I.
Caroline I.
Johnston I.
Tuamotu Archipelago
55
60
65
70
75
80
85
90


OCTOBER 1-31, 1969
FIG. 5 - DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM OCTOBER 1968 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1969.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GULF OF PANAMA
GALAPAGOS IS
YUCATAN
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
HAITI
JAMAICA
CUBA
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Corinto
Managua
Chipperton I
Puntarenas
Colon
Panama
Balboa
Obaldia
Cocos I
Esmeraldas
San Francisco
Guayaquil
Lobitos
Paita
Malacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Cachau
Mollendo
Ilo
Salaverry
Easter I
S. Felix
S. Ambrosio
Juan Fernandez
Mas Afuera
Constitucion
Talcahuano
Concepcion
Mocha I
Valdivia
Galveston
Tampico
Vera Cruz
Progreso
Campeche
Belize
Tela de Pinos
Trujillo
Puerto Barrios
Livingston
Santiago
Guantanamo
Kingston
Barahona
Aguilera
Cabo Cruz
Cabo Cruz
Cabo Cruz


OCTOBER 1-31, 1969
FIG. 6-DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1969.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Salina Cruz
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
Panama
Colon
Esmeraldas
San Francisco
Guayaquil
Lobitos
Talara
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Mollendo
Arica
Iquique
Antofagasta
Coquimbo
Valdivia
Corral
Concepcion
Talcahuano
Constitucion
Juan Fernandez
S. Felix
S. Ambrosio
Progreso
Campeche
YUCATAN
Vera Cruz
Tampico
Galveston
Cuba
Haiti
Jamaica
Trujillo
Puerto Limon
Chiriqui
Chiriqui Gulf
Coiba I.
Cocos I.
Malpelo I.
Gorgona I.
Gorgona
Gallo I.
Malpelo
Rio Hacha
Maracaibo
Curacao
Aruba
Bonaire
Margarita
Trinidad
Barbados
Grenada
Tobago
Puerto Cabello
La Guaira
Curacao
Aruba
Bonaire
Margarita
Trinidad
Barbados
Grenada
Tobago
Puerto Cabello
La Guaira
Maracaibo
Rio Hacha
Cartagena
Barranquilla
Buenaventura
Tumaco
Esmeraldas
Manta
Salinas
Puna I.
Guayaquil
Tumbes
Paita
Lobitos
Talara
Eten
Salaverry
Trujillo
Chimbote
Callao
Lima
Pisco
Chala


October 1-15, 1969
Part II, Supplement 1
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - OCTOBER
U.S. DEPARTMENT OF THE INTERIOR
Fish and Wildlife Service
Bureau of Commercial Fisheries
Fishery-Oceanography Center
P.O. Box 271
La Jolla, California 92037
VANCOUVER I.
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
SHOWBOAT
ERBEN BK.
GUADALUPE I
56
57
58
59
60
62
64
53
54
56
66
68
68
70
66
72
72
74
76
78
80
60°
45°
40°
35°
30°
135°
130°
125°
120°
115°


October 16-31, 1969
Part II, Supplement 2
Sea-surface Temperature °F.,
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - OCTOBER
U.S. DEPARTMENT OF THE INTERIOR
Fish and Wildlife Service
Bureau of Commercial Fisheries
Fishery-Oceanography Center
P.O. Box 271
La Jolla, California 92037
52
54
56
58
60
62
64
66
68
70
72
74
55
54
53
57
70
72
74
VANCOUVER I.
C. BLANCO
C. MENDOCINO
DAVIDSON
PT. CONCEPTION
SAN JUAN
ERBEN BK.
SHOWBOAT
GUADALUPE I
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°



UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES
Fishery-Oceanography Center
La Jolla, California 92037

BULLETIN NO. 69-10

1969 ALBACORE SEASON NEARS END

Albacore fishing activity dropped off sharply in the past week as fall weather settled in upon the Pacific Coast. A series of fall storms entered the Pacific Northwest at frequent intervals, causing virtually all fishing activity in Washington and Oregon to be terminated by the week ending October 24. However, October weather has generally been better this year than last. The fall storms in the Pacific Northwest came gradually, forcing the tuna fleet southward as the offshore area cooled north of Cape Blanco. Strong southwesterly winds did not spread south of San Francisco, and calm to variable wind conditions prevailed during most of the past 2 weeks off Central California.

The good weather off Central California permitted a fleet of more than 50 jigboats to continue fishing for albacore right up to the end of the month. The most productive area has been located from 60 to 150 miles offshore from Point Sur to Point Conception. Daily scores reported from this area within the past 2 weeks hovered slightly below 100 fish on the average, although a few scores of 250-300 fish were tallied.

The unexpected appearance of commercial quantities of albacore off Central California in October substantially altered an otherwise disappointing season. We estimate the production from this district will contribute approximately 5 million pounds to the season totals, the bulk of which will be unloaded in California ports. As a consequence, California landings may rise further, but 1969 still will be one of the worst years on record. Oregon and Washington production is estimated to fall among the top four years on record, and British Columbia landings will add appreciably to the total. The Pacific Coast albacore landings should thus fall between 47 and 49 million pounds, or just about on the 1963-68 average of 48 million pounds.

The outlook for the first half of November is poor. The usual intensification and southward advance of fall storms will cause the optimum temperature zone to move offshore and south. Even if the weather should permit short periods of fishing, most boats will be unable to move offshore far enough to work the fish before having to return in the face of another storm system. In addition, the albacore have begun their annual offshore migration, which further limits their accessibility to the fishing fleet.

This bulletin marks the close of our albacore fishery monitoring and prediction activities for 1969. For a complete summary of the 1969 season, readers are advised to obtain the November issue of the California Fishery Market News Monthly Summary, Part II--Fishing Information, which will appear about mid-December. Next year's services are scheduled to commence with the issuance of the first 15-day sea surface temperature chart on April 15, 1970; Bulletin No. 70-1, and Radio Station WWD broadcast schedules will be issued on or after that date. Thank you for your continued interest in our program.

October 31, 1969

Staff, Fishery-Oceanography Group
Glenn A. Flittner, Leader